IN THE CLAIMS:

Please amend the claims as follows:

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82. (Cancelled)

83. (Cancelled)

84. (Currently Amended) A process for producing ~~the~~ an enzyme/microorganism composite solution, ~~as claimed in Claim 81, which comprises the following steps:~~

said composite solution comprising:

(a) aerobic microorganisms, (b) anaerobic microorganisms, (c) at least one Basidiomycetes belonging to Pleurotus coruncopiae, living in symbiosis with each other,

and enzymes produced as their metabolites,

photosynthetic bacteria, and

enzymes for decomposing carbon,

said process comprising the following steps:

(1) incorporating a source of aerobic microorganisms and an essence of Basidiomycetes containing at least Pleurotus coruncopiae into a solution obtained by pulverizing proteins mainly comprising animal proteins, adding grain and yeast to the pulverized substances to undergo fermentation, heating the fermented products, pulverizing the heated product, adding a Lactobacillaceae culture or a Bacillus subtilis culture to the pulverized products and fermenting the culture under aerobic conditions, and culturing the microorganisms under aerobic conditions at normal temperature and normal pressure until the solution becomes transparent;

(2) incorporating a source of anaerobic microorganisms to the above culture and culturing the mixture under anaerobic conditions at normal temperature and normal pressure,

(3) adding photosynthetic bacteria to the culture and further continuing the culturing[.],

(4) adding a carbon source originating from plants to the culture and further continuing the culturing, and

(5) diluting the culture obtained in Step (4) 2 to 4 times with the culture obtained in Step (3).

85. (Currently Amended) A carbonaceous carrier containing microorganisms and enzymes originating from these microorganisms contained in the enzyme/microorganism composite solution of Claim ~~81~~ 84 in a dissolved carbon.

86. (Currently Amended) A process for producing the carrier of Claim 85, which comprises impregnation of finely divided carbon with the enzyme/microorganism composite solution of the Claim ~~81~~ 84 or its diluted solution diluted with water to incorporate the active components of the culture according to Claim ~~81~~ 84 and at the same time to dissolve the carbon.

87. (Currently Amended) A porous absorbing material containing microorganisms and enzymes originating from these microorganisms contained in the enzyme/microorganism composite solution of Claim ~~81~~ 84.

88. (Original) The porous absorbing material as claimed in Claim 87, wherein the porous absorbing material is based on an activated carbon.

89. (Currently Amended) A process for producing the porous absorbing material as claimed in Claim 88, comprising impregnation of a porous absorbing material with the enzyme/microorganism composite solution of Claim ~~81~~ 84 or its diluted solution diluted with water to incorporate the active components of the culture of Claim ~~81~~ 84.

90. (Original) The process for producing the porous absorbing material as claimed in Claim 89, wherein the porous absorbing material is based on an activated carbon.

91. (Currently Amended) The process for producing the porous absorbing material as claimed in Claim 89, wherein said porous absorbing material is a used material, and the material is impregnated with the culture of Claim ~~81~~ 84 or its diluted solution diluted with water for a period sufficient for decomposing the ingredients absorbed into the porous absorbing material to simultaneously carry out the recovery of the used porous absorbing material.

92. (Original) A filter containing the porous absorbing material of Claim 87.

93. (Cancelled)

94. (Cancelled)

95. (Cancelled)

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99. (Cancelled)

100. (Cancelled)

101. (Cancelled)

102. (Cancelled)

103. (Cancelled)

104. (Currently Amended) A process for reviving a plant attacked by a pathogenic organism comprising:

(a) digging up the plant, and washing the whole of the plant with a solution of the microorganism culture according to claim 84 diluted with water,

(b) spraying a solution of the microorganism enzyme/microorganisms composite solution according to claim 84 diluted with water on the soil thus dug, and

(c) newly planting the plant and applying soil in which a solution of the microorganism culture according to claim 84 diluted with water is impregnated; and

~~The process for reviving a plant as claimed in Claim 103,~~ wherein said plant is injured by stem canker, and which process further comprises surgically removing the portion infected with the stem canker, applying the slurry of Claim 85, followed by drying.

105. (Cancelled)

106. (Cancelled)

107. (Cancelled)

108. (Cancelled)

109. (Cancelled)

110. (Cancelled)

111. (Cancelled)

112. (Cancelled)

113. (Original) A process for treating solid substances containing harmful substances or salts comprising mixing the carrier of Claim 85 with the solid to be treated, and stirring the mixture, followed by washing with water.

114. (Original) The process as claimed in Claim 113, wherein said solid to be treated are sands containing harmful substances or salts.

115. (Original) The process as claimed in Claim 113, wherein said solid to be treated are burned ash or fly ash containing harmful substances.

116. (Original) A fine aggregate comprising the sands of claim 114 treated according the process of Claim 113.

117. (Original) A reduction type construction material obtained from the fine aggregate of Claim 116.

118. (Original) A fine aggregate comprising the burned ash or fly ash of claim 115 treated according to the process of Claim 113.

119. (Original) A reduction type construction material obtained from the fine aggregate of Claim 118.

120. (Original) A reduction type construction material comprising the carrier of Claim 85.

121. (Currently Amended) A process for removing water bloom which comprises spraying a solution of the enzyme/microorganism composite solution according to ~~any one of claims 78-81~~ claim 84 diluted with water onto water bloom caused by eutrophication.

122. (Original) A process for treating seston which comprises incorporating the carrier of Claim 85 into water containing seston to aggregate the seston.

123. (Original) A process for treating water containing polluted sediments comprising incorporating the carrier of Claim 85 into the water containing polluted sediments to decompose the polluted sediments.

124. (Original) An aggregating agent comprising the carrier of Claim 85.

125. (Original) A process for treating a liquid containing salts which comprises passing water containing salts through a filter containing the filter of Claim 92 one or more times to remove the salts.

126. (Original) A process for treating a liquid containing salts which comprises incorporating the carrier of Claim 85 into water containing salts, followed by stirring.

127. (Original) The process of as claimed in Claim 125 or 126, wherein said water contains seawater, and conversion of seawater into freshwater is carried out.

128. (Original) A process for treating a liquid containing harmful substances which comprises incorporating the carrier of Claim 85 into a liquid containing harmful substances.

129. (Original) A process for treating a liquid containing harmful substances which comprises incorporating the carrier of Claim 85 into a liquid containing harmful substances, followed by stirring.

130. (Original) A process for treating a liquid containing harmful substances which comprises passing a liquid containing harmful substances through a filter containing the filter of Claim 92 one or more times to remove the salts.

131. (Original) A process for treating a liquid containing harmful substances which comprises:

a) incorporating the carrier of Claim 85 into a liquid containing harmful substances, and

b) passing the liquid containing harmful substances through the filter of Claim 92 containing the absorbing material once or more times to remove the salts.

132. (Original) The process as claimed in Claim 131, wherein (a) is carried out while stirring.

133. (Original) An apparatus for treating a liquid comprising:
an inlet for supplying water to be treated,
a filtering portion comprising the filter of Claim 92 containing at least one absorbing material, and
a receiver which stores the treated water.

134. (Original) The apparatus as claimed in Claim 133, which further comprises means for supplying the treated liquid to said filter, which is connected to the receiver, whereby the treated water is supplied to the filter after several treatment to recover the filter.

135. (Original) The apparatus as claimed in Claim 133 or 134, which further comprises a water tank having a stirring portion for a pretreatment, and a transportation means for transporting the pretreated water to the filtering portion.

136. (Cancelled)

137. (Original) A process for treating a gas which comprises the filter of Claim 92.

138. (Cancelled)

139. (Cancelled)

140. (Cancelled)

141. (Cancelled)

142. (Cancelled)

143. (Cancelled)

144. (Original) A deodorizer comprising the carrier of Claim 85.

145. (Original) A deodorizer comprising the absorbing material of Claim 87.

146. (Original) A filter for treating water comprising the filter of Claim 92 containing the absorbing material.

147. (Original) An apparatus for purifying water comprising the filter of Claim 92 containing the absorbing material.

148. (Original) A showerhead comprising the filter for treating water of Claim 146.

149. (Original) A water-purifying agent comprising the carrier of Claim 85.

150. (Original) A water-purifying agent comprising the absorbing material of Claim 87.

151. (Original) The process as claimed in Claim 128, wherein the harmful substance is a heavy metal.

152. (Original) The process as claimed in Claim 151, wherein said heavy metal is chromium, copper, cobalt, manganese, mercury, cadmium or a mixture thereof.

153. (Original) The process as claimed in Claim 128, wherein the harmful substance is an organic halogen.

154. (Original) The process as claimed in Claim 153, wherein said organic halogen is a dioxin, PCB, chlorobenzene, tetrachloroethylene, trichloroethylene, dichlorometahme, carbon tetrachloride, 1,2-dichloroethylene, 1,3-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethylene, 1,3-dichlororthylene or a mixture thereof.

155. (Original) The process as claimed in Claim 128, wherein said harmful substance is petroleum.

156. (Original) The process as claimed in Claim 128, wherein said liquid to be treated is a plating exhaust liquid.

157. (Original) The process as claimed in Claim 128, wherein said liquid to be treated is an exhaust liquid from semiconductor processing.

158. (Original) The process as claimed in Claim 128, wherein said liquid to be treated is an exhaust liquid from photo developing.

159. (Original) The process as claimed in Claim 128, wherein said liquid to be treated is an exhaust liquid containing dyestuffs.

160. (Original) The process as claimed in Claim 128, wherein said liquid to be treated is a sewage.

161. (Original) The process as claimed in Claim 128, wherein said liquid to be treated is an exhaust liquid containing heavy metal, organic halogen or petroleum, or from plating industries, semiconductor processing, photo developing or sewage.

162. (Original) The process as claimed in Claim 129, wherein the harmful substance is a heavy metal.

163. (Original) The process as claimed in Claim 162, wherein said heavy metal is chromium, copper, cobalt, manganese, mercury, cadmium or a mixture thereof.

164. (Original) The process as claimed in Claim 129, wherein the harmful substance is an organic halogen.

165. (Original) The process as claimed in Claim 164, wherein said organic halogen is a dioxin, PCB, chlorobenzene, tetrachloroethylene, trichloroethylene, dichlorometahme, carbon tetrachloride, 1,2-dichloroethylene, 1,3-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethylene, 1,3-dichlororthylene or a mixture thereof.

166. (Original) The process as claimed in Claim 129, wherein said harmful substance is petroleum.

167. (Original) The process as claimed in Claim 129, wherein said liquid to be treated is a plating exhaust liquid.

168. (Original) The process as claimed in Claim 129, wherein said liquid to be treated is an exhaust liquid from semiconductor processing.

169. (Original) The process as claimed in Claim 129, wherein said liquid to be treated is an exhaust liquid from photo developing.

170. (Original) The process as claimed in Claim 129, wherein said liquid to be treated is an exhaust liquid containing dyestuffs.

171. (Original) The process as claimed in Claim 129, wherein said liquid to be treated is a sewage.

172. (Original) The process as claimed in Claim 129, wherein said liquid to be treated is an exhaust liquid containing heavy metal, organic halogen or petroleum, or from plating industries, semiconductor processing, photo developing or sewage.

173. (Original) The process as claimed in Claim 130, wherein the harmful substance is a heavy metal.

174. (Original) The process as claimed in Claim 173, wherein said heavy metal is chromium, copper, cobalt, manganese, mercury, cadmium or a mixture thereof.

175. (Original) The process as claimed in Claim 130, wherein the harmful substance is an organic halogen.

176. (Original) The process as claimed in Claim 175, wherein said organic halogen is a dioxin, PCB, chlorobenzene, tetrachloroethylene, trichloroethylene, dichlorometahme, carbon tetrachloride, 1,2-dichloroethylene, 1,3-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethylene, 1,3-dichlororthylene or a mixture thereof.

177. (Original) The process as claimed in Claim 130, wherein said harmful substance is petroleum.

178. (Original) The process as claimed in Claim 130, wherein said liquid to be treated is a plating exhaust liquid.

179. (Original) The process as claimed in Claim 130, wherein said liquid to be treated is an exhaust liquid from semiconductor processing.

180. (Original) The process as claimed in Claim 130, wherein said liquid to be treated is an exhaust liquid from photo developing.

181. (Original) The process as claimed in Claim 130, wherein said liquid to be treated is an exhaust liquid containing dyestuffs.

182. (Original) The process as claimed in Claim 130, wherein said liquid to be treated is a sewage.

183. (Original) The process as claimed in Claim 130, wherein said liquid to be treated is an exhaust liquid containing heavy metal, organic halogen or petroleum, or from plating industries, semiconductor processing, photo developing or sewage.

184. (Original) The process as claimed in Claim 131, wherein the harmful substance is a heavy metal.

185. (Original) The process as claimed in Claim 184, wherein said heavy metal is chromium, copper, cobalt, manganese, mercury, cadmium or a mixture thereof.

186. (Original) The process as claimed in Claim 131, wherein the harmful substance is an organic halogen.

187. (Original) The process as claimed in Claim 131, wherein said organic halogen is a dioxin, PCB, chlorobenzene, tetrachloroethylene, trichloroethylene, dichlorometahme, carbon tetrachloride, 1,2-dichloroethylene, 1,3-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethylene, 1,3-dichlororthylene or a mixture thereof.

188. (Original) The process as claimed in Claim 131, wherein said harmful substance is petroleum.

189. (Original) The process as claimed in Claim 131, wherein said liquid to be treated is a plating exhaust liquid.

190. (Original) The process as claimed in Claim 131, wherein said liquid to be treated is an exhaust liquid from semiconductor processing.

191. (Original) The process as claimed in Claim 131, wherein said liquid to be treated is an exhaust liquid from photo developing.

192. (Original) The process as claimed in Claim 131, wherein said liquid to be treated is an exhaust liquid containing dyestuffs.

193. (Original) The process as claimed in Claim 131, wherein said liquid to be treated is a sewage.

194. (Original) The process as claimed in Claim 131, wherein said liquid to be treated is an exhaust liquid containing heavy metal, organic halogen or petroleum, or from plating industries, semiconductor processing, photo developing or sewage.

195. (Original) The process as claimed in Claim 132, wherein the harmful substance is a heavy metal.

196. (Original) The process as claimed in Claim 195, wherein said heavy metal is chromium, copper, cobalt, manganese, mercury, cadmium or a mixture thereof.

197. (Original) The process as claimed in Claim 132, wherein the harmful substance is an organic halogen.

198. (Original) The process as claimed in Claim 132, wherein said organic halogen is a dioxin, PCB, chlorobenzene, tetrachloroethylene, trichloroethylene, dichlorometahme, carbon tetrachloride, 1,2-dichloroethylene, 1,3-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethylene, 1,3-dichlororthylene or a mixture thereof.

199. (Original) The process as claimed in Claim 132, wherein said harmful substance is petroleum.

200. (Original) The process as claimed in Claim 132, wherein said liquid to be treated is a plating exhaust liquid.

201. (Original) The process as claimed in Claim 132, wherein said liquid to be treated is an exhaust liquid from semiconductor processing.

202. (Original) The process as claimed in Claim 132, wherein said liquid to be treated is an exhaust liquid from photo developing.

203. (Original) The process as claimed in Claim 132, wherein said liquid to be treated is an exhaust liquid containing dyestuffs.

204. (Original) The process as claimed in Claim 132, wherein said liquid to be treated is a sewage.

205. (Original) The process as claimed in Claim 131, wherein said liquid to be treated is an exhaust liquid containing heavy metal, organic halogen or petroleum, or from plating industries, semiconductor processing, photo developing or sewage.